

10/072,465

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal204bxd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the
present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPLUS
NEWS 22 FEB 05 German (DE) application and patent publication number format
changes
NEWS 23 MAR 03 MEDLINE and LMedLINE reloaded
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03 FRANCEPAT now available on STN

NEWS EXPRESS MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:53:05 ON 10 MAR 2004

=> fil rg

'RG' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'HOME'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:53:31 ON 10 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAR 2004 HIGHEST RN 660815-69-0

DICTIONARY FILE UPDATES: 9 MAR 2004 HIGHEST RN 660815-69-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

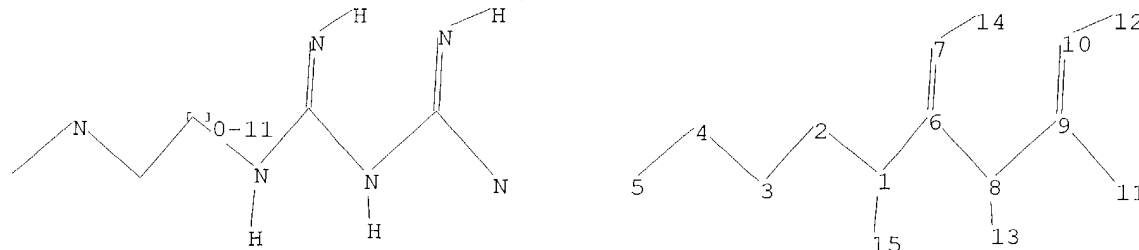
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10672465.str



chain nodes :

1 2 3 4 6 7 8 9 10 11 12 13 14 15

ring/chain nodes :

5

chain bonds :

1-2 1-6 1-15 2-3 3-4 4-5 6-7 6-8 7-14 8-9 8-13 9-10 9-11 10-12

exact/norm bonds :
1-2 1-6 3-4 4-5 6-7 6-8 8-9 9-10 9-11
exact bonds :
1-15 2-3 7-14 8-13 10-12

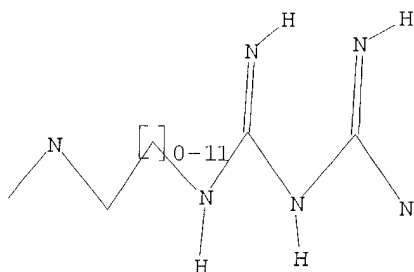
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=> d query

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 17:53:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 119 TO ITERATE

100.0% PROCESSED 119 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1726 TO 3034
PROJECTED ANSWERS: 656 TO 1544

L2 50 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 17:53:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2471 TO ITERATE

100.0% PROCESSED 2471 ITERATIONS 964 ANSWERS
SEARCH TIME: 00.00.01

L3 964 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
155.42	155.63

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 17:54:15 ON 10 MAR 2004

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FILE COVERS 1907 - 10 Mar 2004 VOL 140 ISS 11
FILE LAST UPDATED: 9 Mar 2004 (20040309/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 3969 L3

=> fil reg

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
1.31	156.94

FILE 'REGISTRY' ENTERED AT 17:55:59 ON 10 MAR 2004
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STRUCTURE FILE UPDATES: 9 MAR 2004 HIGHEST RN 660815-69-0
DICTIONARY FILE UPDATES: 9 MAR 2004 HIGHEST RN 660815-69-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

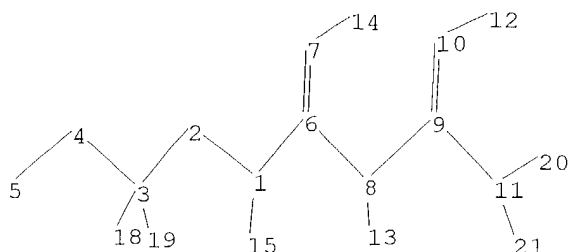
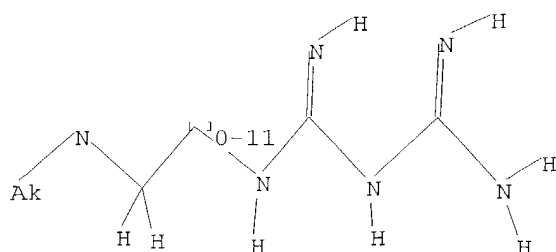
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10672465a.str



```

chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 19 20 21
chain bonds :
1-2 1-6 1-15 2-3 3-4 3-18 3-19 4-5 6-7 6-8 7-14 8-9 8-13 9-10 9-11
10-12 11-20 11-21
exact/norm bonds :
1-2 1-6 3-4 4-5 6-7 6-8 8-9 9-10 9-11
exact bonds :
1-15 2-3 3-18 3-19 7-14 8-13 10-12 11-20 11-21

```

```

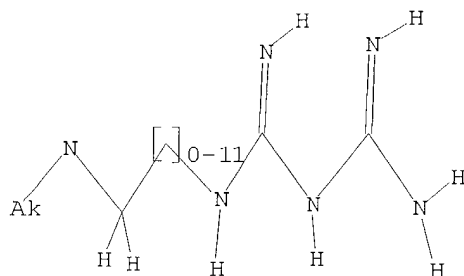
Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS

```

L5 STRUCTURE UPLOADED

=> d query

L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 17:56:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 125 TO ITERATE

100.0% PROCESSED 125 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1830 TO 3170

PROJECTED ANSWERS:

624 TO

1496

L6

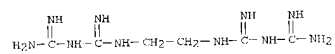
50 SEA SSS SAM L5

=> d scan

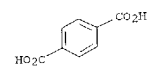
L6 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Terephthalic acid, polymer with 1,1'-ethylenebis[biguanide] (BCI)
MF (C8 H6 O4 . C6 H16 N10)x
CI PMS

****RELATED POLYMERS AVAILABLE WITH POLYLINK****

CM 1



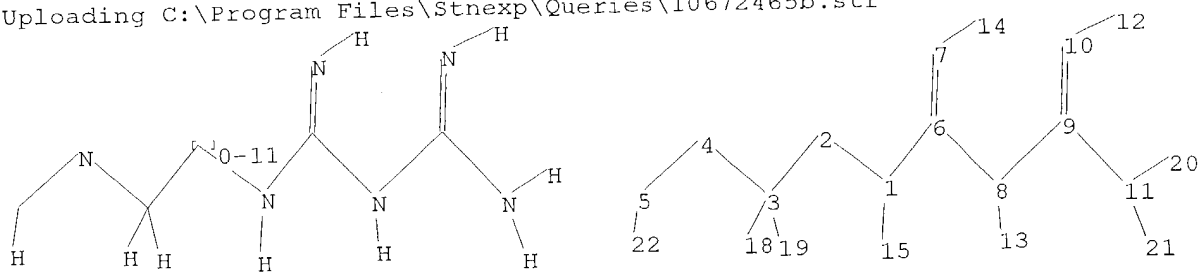
CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Uploading C:\Program Files\Stnexp\Queries\10672465b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 19 20 21 22

chain bonds :

1-2 1-6 1-15 2-3 3-4 3-18 3-19 4-5 5-22 6-7 6-8 7-14 8-9 8-13 9-10
9-11 10-12 11-20 11-21

exact/norm bonds :

1-2 1-6 3-4 4-5 6-7 6-8 8-9 9-10 9-11

exact bonds :

1-15 2-3 3-18 3-19 5-22 7-14 8-13 10-12 11-20 11-21

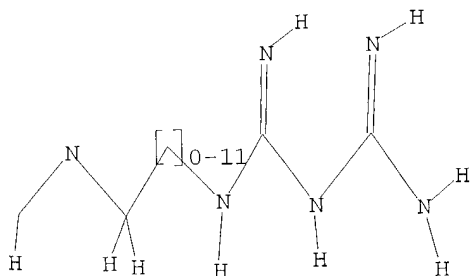
Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS

L7 STRUCTURE UPLOADED

=> d query

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 17:58:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 119 TO ITERATE

100.0% PROCESSED 119 ITERATIONS
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1726 TO 3034
PROJECTED ANSWERS: 1 TO 80

L8 1 SEA SSS SAM L7

=> s 17 full
FULL SEARCH INITIATED 17:58:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2471 TO ITERATE

100.0% PROCESSED 2471 ITERATIONS 54 ANSWERS
SEARCH TIME: 00.00.01

L9 54 SEA SSS FUL L7

	SINCE FILE	TOTAL
	ENTRY	SESSION
COST IN U.S. DOLLARS	156.68	313.62
FULL ESTIMATED COST		

FILE 'CAPLUS' ENTERED AT 17:58:24 ON 10 MAR 2004
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FILE COVERS 1907 - 10 Mar 2004 VOL 140 ISS 11
FILE LAST UPDATED: 9 Mar 2004 (20040309/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19
L10 12 L9

=> d 110 1-12 abs ibib hitstr

PRIORITY APPLIN. INFO. WO 1998-052135Z W 19980617

OTHER SOURCE(S) MARPAT 131:6344E
IT 228259-92-SF 228259-94-TW 228259-95-SF
228259-96-WP Biological activity or effector, except adverse; RBU (Biological
RL: BAC (Biological activity); EBU (Biological use, unclassified); SFN (Synthetic
study, unclassified); EBU (Biological use, unclassified); PREP (Preparation); THU (Therapeutic use); BIOL (Biological study); FREE
(Preparation); USES (Uses)
(ammonobiquanilides and comp. thereof to disinfect contact lenses and
preserve pharmaceutical compositions.)
RU 228259-92-S CAPLUS
IRI55Gdicarbonimidic diamide, N-(1,4-dimethylpentyl)-N'-[3-

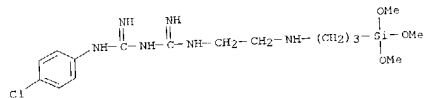
RN 220259-97-0 CAPLUS
CN 1midodicarbonimidic diamide, N,N'-bis[3-(dodecylmethylamino)P
dodecylamide (9CI) (CA INDEX NAME)

● 1992

● HCL

149889-99-6 CAPLUS
2-Oxa-7,10,12-triaza-3-silatrican-13-imidamide, N-(4-chlorophenyl)-11-
imino-3,3-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● HCl

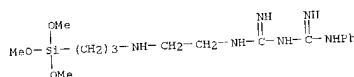
L10 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 AB X3Si(CH2)n [NH(CH2)2]m G [X = halo, alkoxy; n = 1-6; m = 0, 1; G = (alkyl-substituted) cyanoguanidyl, biguanidyl, (halo-, alkyl-, or fluoromethyl-substituted) Ph], were prepared. Thus, H2N(CH2)3Si(OMe)3 and NCMC(SiMe3)NH2 were refluxed 18 h in EtOH to give NCNCC(SiMe3)NH(CH2)3SiMe3, which was used to impregnate cotton. The resulting material showed 86.5% antibacterial activity against *Klebsiella pneumoniae* according to AATCC-100 and 0% water uptake according to JIS-L-1018A.

ACCESSION NUMBER: 1993:581013 CAPLUS
 DOCUMENT NUMBER: 119:181013
 TITLE: Preparation of cyanoguanidyl- and biguanidylalkylsilane coupling agents with antibacterial properties
 INVENTOR(S): Honda, Tsunetoshi; Azuma, Akiko; Nishihara, Akira
 PATENT ASSIGNEE(S): Mitsubishi Materials Corp., Japan
 SOURCE: Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4243398	A1	19930701	DE 1992-4243398	19921221
DE 4243398	C2	19941103		
JP 05247066	A2	19930924	JP 1991-359589	19911228
JP 05320176	A2	19931203	JP 1991-359591	19911228
JP 2874422	E2	19930324		
GB 2262740	A1	19930630	GB 1992-26784	19921223
GB 2262740	B2	19951025		
US 5312944	A	19940517	US 1992-996087	19921224
			JP 1991-359589	19911228
			JP 1991-359591	19911228

PRIORITY APPLN. INFO.: MARPAT 119:181013

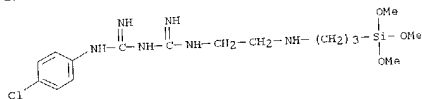
OTHER SOURCE(S):
 IT 149889-99-5P 149889-99-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as antibacterial coupling agent)
 RN 149889-99-5 CAPLUS
 CN 2-Oxa-7,10,12-triaza-3-silatricon-13-imidamide, 11-imino-3,3-dimethoxy-N-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

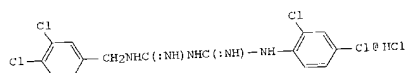
RN 149889-99-6 CAPLUS
 CN 2-Oxa-7,10,12-triaza-3-silatricon-13-imidamide, N-(4-chlorophenyl)-11-imino-3,3-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● HCl

L10 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 GI



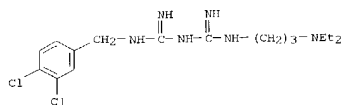
AB Title compds. R1NHC(SiMe3)NHC(SiMe3)NHR2 [R1 = (substituted) PhCH2, (substituted) Ph; R2 = (substituted) alkyl, substituted Ph, cyclohexylmethyl, etc.], useful as bactericides, are prepared by reacting the appropriate amine with a cyanoguanidine. Equimol. amts. of N1-cyano-N3-(3,4-dichlorobenzyl)guanidine and 3,4-dichlorobenzylamine were refluxed for 2 h to give the biguanide I. In test against *Staphylococcus aureus* HSA 57 the min. inhibitory concentration of I was 0.39 µg/mL. Generic injectable formulations containing the title compds. are given.

ACCESSION NUMBER: 1993:516980 CAPLUS
 DOCUMENT NUMBER: 119:116980
 TITLE: Preparation of biguanide derivatives as disinfectants
 INVENTOR(S): Ishikawa, Hiroshi; Yasumura, Koichi; Tsubouchi, Hidetatsu; Higuchi, Yukio; Tamaoka, Hisashi
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 45 pp.
 CODEN: EFXKXW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 507317	A2	19921007	EP 1992-105776	19920403
EP 507317	A3	19930224		
EP 507317	B1	19970115		
R1: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
JP 04308562	A2	19921030	JP 1991-73202	19910405
IN 181293	A	19980509	IN 1992-DE289	19920331
CA 2064664	AA	19921005	CA 1992-2064664	19920401
CA 2064664	C	20000111		
AU 9214015	A1	19921008	AU 1992-14016	19920402
AU 651194	B2	19940714		
US 5376686	A	19941227	US 1992-853420	19920403
AT 147725	E	19970215	AT 1992-105776	19920403
ES 2099176	T3	19970516	ES 1992-105776	19920403
CN 1065453	A	19921021	CN 1992-102352	19920404
CN 1038248	B	19980506		
JP 05194361	A2	19930803	JP 1992-155336	19920615
			JP 1991-73202	19910405
			JP 1991-147644	19910619
			JP 1991-224306	19910904

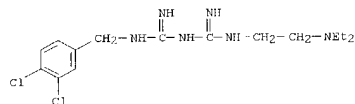
PRIORITY APPLN. INFO.: MARPAT 119:116980
 OTHER SOURCE(S):
 IT 146510-14-7P 146510-17-0P 146510-19-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

L10 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
 (prepn. of, as bactericide)
 RN 146510-14-7 CAPLUS
 CN Imidodicarbonimidic diamide, N-[(3,4-dichlorophenyl)methyl]-N'-[3-(diethylamino)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)

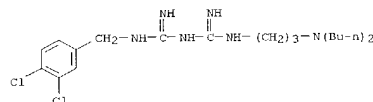


● HCl

RN 146510-17-0 CAPLUS
 CN Imidodicarbonimidic diamide, N-[(3,4-dichlorophenyl)methyl]-N'-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)



RN 146510-19-2 CAPLUS
 CN Imidodicarbonimidic diamide, N-[(3-(diethylamino)propyl)methyl]-N'-[(3,4-dichlorophenyl)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

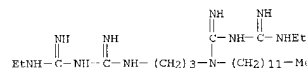
L10 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
 AB Antibacterial bis(biguanides) RR1NC(=NR2)NHC(=NR3)NR4NR5C(=NR3)NHC(=NR6)NR7R8 1 (R, R1, R3-5, R7, R8 = H, (un)substituted alkyl, Ph, naphthyl)
 NR1, NR7R8 = (un)substituted N-containing heterocycles; R3, R6 = H, alkyl;
 X

= (un)substituted C2-16 alkylene, alkylene (cycloalkylene)alkylene were prepared. Thus, H2N(CH2)12NH2 reacted with 2-ClC6H4CHO in EtOH-HOAc under H, using PtO2 catalyst, to give R5NH(CH2)12NHR6 (R5 = CH2C6H4Cl-2), which reacted with H2NC(=NH)NHCN to give H2NC(=NH)NHC(=NH)NR9(CH2)12NHR9C(=NH)NH C(=NH)NH2. 1 were active against Candida albicans and 8 gram pos. bacteria at 1-12 µg/mL, and bactericidal against 14 gram neg. bacteria at 20-250 µg/mL.

ACCESSION NUMBER: 1985:220469 CAPLUS
 DOCUMENT NUMBER: 102:220469
 TITLE: Bis(1-substituted biguanide) derivatives
 INVENTOR(S): Edwards, Philip Nail; Large, Michael Stewart
 PATENT ASSIGNER(S): Imperial Chemical Industries PLC, UK
 SOURCE: Eur. Pat. Appl., 38 pp.
 CODEM: EPXAMW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 126567	A1	19841123	EP 1984-302927	19840501
US 4567174	A	19860128	US 1984-607703	19840507
JP 59206347	A2	19841122	JP 1984-91184	19840509

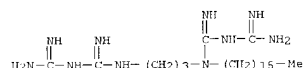
PRIORITY APPLN. INFO.: GB 1983-12664 19830509
 IT 95669-79-7P 95669-84-4P 95669-85-5P
 95669-86-6P 95669-94-6P 95669-95-7P
 95669-96-8P 95669-97-9P
 RI: PAC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of, as bactericide)
 RN 95669-79-7 CAPLUS
 CN 2,4,8,10-Tetraazaundecanediimidamide, 4-dodecyl-N,N''-diethyl-3,9-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

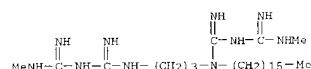
RN 95669-84-4 CAPLUS
 CN 2,4,8,10-Tetraazaundecanediimidamide, 4-hexadecyl-3,9-diimino-, dihydrochloride (9CI) (CA INDEX NAME)

L10 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



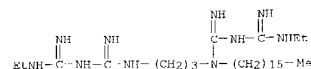
● 2 HCl

RN 95669-85-5 CAPLUS
 CN 2,4,8,10-Tetraazaundecanediimidamide, 4-hexadecyl-3,9-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



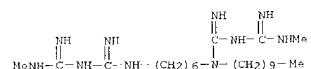
● 2 HCl

RN 95669-86-6 CAPLUS
 CN 2,4,8,10-Tetraazaundecanediimidamide, N,N''-diethyl-4-hexadecyl-3,9-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

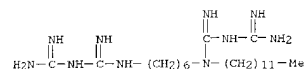
RN 95669-94-6 CAPLUS
 CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-decyl-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

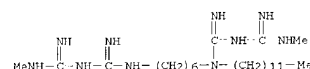
L10 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 95669-95-7 CAPLUS
 CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-dodecyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



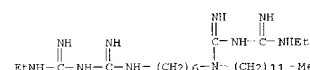
● 2 HCl

RN 95669-96-8 CAPLUS
 CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-dodecyl-3,12-diimino-N,N''-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 95669-97-9 CAPLUS
 CN 2,4,11,13-Tetraazatetradecanediimidamide, 4-dodecyl-N,N''-diethyl-3,12-diimino-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

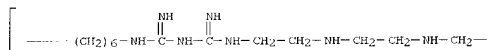
L10 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

$$\left[\text{---CH}_2\text{---NH---}\overset{\text{NH}}{\underset{\parallel}{\text{C}}}\text{---NH---}\overset{\text{NH}}{\underset{\parallel}{\text{C}}}\text{---NH---} \right]$$

IT	56307-32-5		REF ID: A68972	19750000
	RLBAC (Biological activity or effect, except adverse); BSU (Biological study, unclassified); BLOL (Biological study)			
	(bactericidal and fungicidal activity of)			
RN	56307-32-5 CAPLUS			
CN	Poly((m)nocarbonimidoyliminocarbonimidoylimino-1,2-ethanediylimino-1,2-ethanediylimino-1,2-ethanediylaminocarbonimidoyliminocarbonimidoylimino-1,6-hexapediyl) [9C1] (CA INDEX NAME)			

PAGE 1-A



L10 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

$$\text{Ph}-\text{C}_5\text{H}_3\text{N}_2\text{O}-\text{NH}-\text{C}(=\text{NH})-\text{NH}-\text{C}(=\text{NH})-\text{NH}-(\text{CH}_2)_3-\text{N}(\text{Bu}-n)_2$$
 $\bullet \times \text{HCl}$

RN 41740-75-4 CAPIUS
CN Isimodicarbonimidic diamide, N-[3-(diethylamino)propyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)-, (2E)-2-butenedioate (2Cl) (CA INDEX NAME)

CM 1

CRN 41740-73-2
CME C21 H34 N8 O

$$\text{Ph} - \text{C}_4\text{H}_3\text{N}_2\text{O} - \text{NH} - \text{C}(=\text{NH}) - \text{NH} - \text{C}(=\text{NH}) - \text{NH} \cdot (\text{CH}_2)_3 \cdot \text{N}(\text{Bu})_2$$

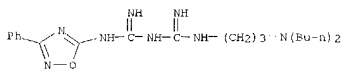
CH 2

CRN 110-17-8
CHE C4 H4 O4

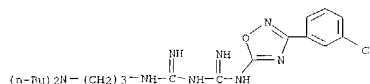
Double bond geometry as shown.

$$\text{HO}_2\text{C}-\text{CH}=\text{CH}-\text{CO}_2\text{H}$$

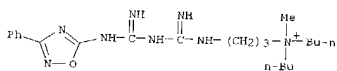
RN 41740-76-5 CAPIUS
CN Isidodicarbonimidic diamide, N-[3-(3-chlorophenyl)-1,2,4-oxadiazol-5-yl]-N'-(3-(diethylamino)propyl)- (9CI) (CA INDEX NAME)



RN 41740-74-3 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(dibutylamino)propyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)-, hydrochloride (9CI) (CA INDEX NAME)

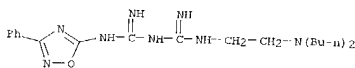


RN 41740-77-6 CAPLUS
CN 1-Butanaminium, N-butyl-N-[3-[[[imino[[imino[(3-phenyl-1,2,4-oxadiazol-5-yl)amino)methyl]amino)methyl]amino]propyl]-N-methyl-, iodide (9CI) (CA INDEX NAME)

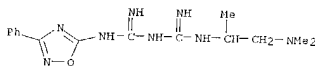


• I⁻

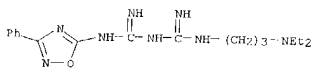
RN 41740-86-7 CAPLUS
CN Imidodicarbonimidic diamide, N-[2-(diethylamino)ethyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)



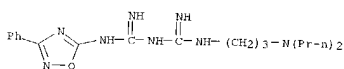
RN 41740-87-8 CAPLUS
CN Imidodicarbonimidic diamide, N-[2-(dimethylamino)-1-methylethyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)



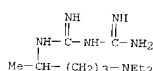
RN 41740-89-0 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(diethylamino)propyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)



RN 41740-90-3 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(diethylamino)propyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)



CRN 48070-83-3
CMF C11 H26 N6



CM 2

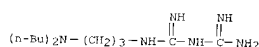
CRN 463-79-6
CMF C H2 O3



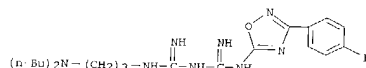
IT 41740-98-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction with (chlorophenyl)oxadiazoles)

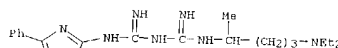
RN 41740-98-1 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(diethylamino)propyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)



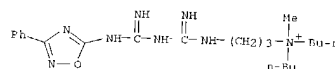
RN 41740-91-4 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(diethylamino)propyl]-N'-(3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)



RN 41740-94-7 CAPLUS
CN Imidodicarbonimidic diamide, N-[4-(diethylamino)-1-methylbutyl]-N'-(3-phenyl-1,2,4-oxadiazol-5-yl)- (9CI) (CA INDEX NAME)

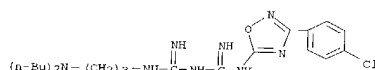


RN 41740-95-8 CAPLUS
CN 1-Butanaminium, N-butyl-N-[3-[[imino[imino(3-phenyl-1,2,4-oxadiazol-5-yl)amino]methyl]amino]methyl]propyl]-N-methyl-, bromide (9CI) (CA INDEX NAME)



• Br⁻

RN 41740-97-0 CAPLUS
CN Imidodicarbonimidic diamide, N-[3-(4-chlorophenyl)-1,2,4-oxadiazol-5-yl]-N'-(3-(diethylamino)propyl)- (9CI) (CA INDEX NAME)



RN 41741-03-1 CAPLUS
CN Carbonic acid, compd. with N-[4-(diethylamino)-1-methylbutyl]imidodicarbonimidic diamide (11) (9CI) (CA INDEX NAME)
CM 1

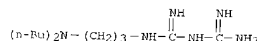
GI For diagram(s), see printed CA issue.
AB The title compd. (I) showing CNS depressant, anticonvulsant, narcosis-potentiating, and reserpine-antagonizing properties are useful in treatment of neuropathic, hallucinations, and endogenous depressions and also for some types of cardiac and respiratory depression. Some derivs. are also weed-killers. I are prepared by cyclization of diguanides R1R2NC(=NH)NHC(=NH)NH2 (II) with α -hydroxy carboxylic acids. II possess antidiabetic, antiinflammatory, and anticholinergic properties. To 21 g cyanoguanidine (III) and 400 ml BuOH was added 1-propylpiperazine, 2HBr to give 72 g 1-(4-propyl)piperazinyldiguanide II [(R1R2 = 4-propyl-1-piperazinyldiguanide II) 2HBr, m. 232-4°. Refluxing 84 g II, 18 g Et2N(CH2)2NH2, 2HCl, and 250 ml Cellosolve 3 hr gave 114 g II [R1 = Et2N(CH2)2, R2 = H], 2HCl, m. 171-3°. The following II were similarly prepared (R1R2N, salt, and m.p. given): Me2N(CH2)3NH, 2HCl, 225° (decomposition); also H2CO3.H2O salt, m. 30° (decomposition); Me2NCH2CH2NH, 2HCl, 236-7°; Bu2N(CH2)2NH, H2CO3.H2O, 132-4° (decomposition); Bu2N(CH2)2NH, H2CO3, 114-16°; Pr2N(CH2)3NH, H2CO3.H2O, 106-8°; per-hydroazepinopropylamino, H2CO3.H2O, 103-5° (decomposition); Me2N(CH2)2NH, 2HCl, 254°; Me2N(CH2)2NH, 2HCl, 179-81°; Et2N(CH2)2NH, 2HCl, 194-5°; Me2N(CH2)3NH, 2HCl, 218-20°; Et2N(CH2)2NH, 2HCl, 194-5°; Me2N(CH2)3NH, 2HCl, 218-20°; 4-hydroxyethyl-1-piperazinyldiguanide, 2HBr, 168-70°; piperidinethiol, 2HCl, 186-8°; morpholinopropyl, base, 109-10°; 4-allyl-1-piperazinyldiguanide, 2HBr, 235-70°; 4-phenylpiperazinyldiguanide, 2HCl, 230-2° (decomposition); 4-(4-chlorophenyl)-1-piperazinyldiguanide, 2HCl, 261-3° (decomposition); 4-isopropyl-1-piperazinyldiguanide, 2HBr, 218-20°; 4-methylperthio-1,4-diazepin-1-yl, 2HBr, 215-17°. To a stirred mixture of 51.5 g II (R1R2N = 4-methyl-1-piperazinyldiguanide), 150 ml MeOH, and 300 ml 2N NaOH in MeOH was added 37.6 g Et α -hydroxyacrylate in 20 ml MeOH to give 15 g I (R = C6H13, R1R2N = 4-methyl-1-piperazinyldiguanide), m. 270° (decomposition); base m. 80-2°. The following I were similarly prepared (R, R1, R2, and m.p. given): H, H, Et2N(CH2)2, 146-8°; Me, H, Et2N(CH2)2, 99-100°; Et, H, allyl, 86-7°; Et, H, Et2N(CH2)2, 83-5°; Et, H, Me2N(CH2)3, 88-90°; Bu, H, allyl, 167-8° (HCl); Bu, H, Et2N(CH2)2, 139-1°; C6H13, H, allyl, 104-6°; C6H13, H, Et2N(CH2)2, 75°; C6H13, H, Me2N(CH2)3, 98-9°; Ph, H, allyl, 140-2°; Ph, H, Et2N(CH2)2, 134-5°; Ph, H, Me2N(CH2)3, 122°; 4-FC6H4, H, Et2N(CH2)2, 143-4°; 4-FC6H4, H, Me2N(CH2)3, 130-1°; 4-ClC6H4, H, Et2N(CH2)3, 140°; 4-ClC6H4, H, Me2N(CH2)2, 136-6°; 4-FC6H4, H, Et2N(CH2)2, 138°; 2-ClC6H4, H, Et2N(CH2)2, 130°; 2-ClC6H4, H, Me2N(CH2)3, 138-90°; 4-FC6H4, H, Et2N(CH2)2, 136-8°; Ph, H, Me2NCH2CH2Me, 141-2°; Ph, H, Bu2N(CH2)3, 98-9°; Ph, H, Pr2N(CH2)3, 108-10°; 4-MeC6H4, H, cyclohexyl, 161-3°; 4-MeC6H4, H, Et2N(CH2)2, 128°; 4-MeC6H4, H, Me2NCH2CH2Me, 170-2°; 4-iso-PrC6H4, H, Et2N(CH2)2, 104-6°; 4-MeOC6H4, H, allyl, 160°; 4-MeOC6H4, H, Et2N(CH2)2, 106°; 4-MeOC6H4, H, Me2N(CH2)3, 132-4°; 4-MeOC6H4, H, Me2NCH2CH2Me, 177-9°; 3-MeOC6H4, H, allyl, 94-6°; 3-MeOC6H4, H, Et2N(CH2)2, 96-7°; 3-MeOC6H4, H, Me2N(CH2)3, 142°; 3-MeOC6H4, H, Me2NCH2CH2Me, 139-40°; 3-FC6H4, H, Et2N(CH2)2, 128-9°; Et, Me, Me2N(CH2)2, 124-6°; Et, Me, Me2N(CH2)2, 73-5°; Et, Me, Me2N(CH2)3, 99-100°; 3,4-Cl2C6H3, H, Et2N(CH2)2, 146-7°; 3-ClC6H4, H, Et2N(CH2)2, 129-30°; 3-ClC6H4, H, Me2N(CH2)3, 129-31°; 3,4,5-(MeO)3C6H2, H, Et2N(CH2)2, 139°; 3,4,5-(MeO)3C6H2, H, Me2N(CH2)3, 166-8°; 3,4,5-(MeO)3C6H2, H, Me2NCH2CH2Me, 193°; 3,4-methylenedioxyphenyl (MDP), H, allyl, 136°; MDP, H, Et2N(CH2)2, 104-5°; MDP, H, Me2NCH2CH2Me, 172-3°; Et, H, piperidinethiol, 102-4°; Et, Me,

L10 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)
 EL2N(CH2)2, 67-9'; Bu, H, piperidinoethyl, 101-3'; Ph, H, Et2N(CH2)2, 104-6'; Ph, H, piperidinoethyl, 168-9'; Ph, Me, Et2N(CH2)2, 91-3'; 4-ClCGH4, H, piperidinoethyl, 171-3'; 4-MeCGH4, H, EL2N(CH2)2, 120-2'; 4-MeCGH4, H, morpholinopropyl, 166-7'; 4-MeCGH4, H, piperidinoethyl, 138-40'; MDP, H, Et2N(CH2)2, 104-5'; MDP, H, morpholinopropyl, 115-17'; MDP, H, piperidinoethyl, 150-1'. The following triazines I (R, NR1R2, and m.p. given) were similarly prepd.: Et, 4-allyl-1-piperazinyl (AP), 103-4'; Et, 4-methylperhydro-1,4-diazepin-1-yl, 123-5'; Ph, 4-phenyl-1-piperazinyl, 153-5'; Ph, 4-(4-chlorophenyl)-1-piperazinyl, 150-3'; Ph, AP, 155-6'; 4-FCGH4, AP, 116-18'; 4-ClCGH4, AP, 116'; H, 4-methyl-1-piperazinyl (MP), 156-7'; 4-propyl-1-piperazinyl (PP), 155-6'; Me, MP (III), 150'; Me, PP, 117-19'; Et, 4-isopropyl-1-piperazinyl, 109-10'; Et, MP, 132'; Et, PP, 116-17'; Et, 4-(2-hydroxyethyl)-1-piperazinyl (HPP), 116-17'; Et, MP, 118-20'; Bu, MP, 280' (decompn.) (2HCl); iso-Bu, MP, 152-4'; CGH13, MP, 80-2' (270' (decompn.) (2HCl)); CGH13, PP, 72-3'; CGH13, HEP, 86-7'; CGH19, MP, 270' (decompn.) (2HCl); C14H29, MP, 153-62'; Ph, 4-isopropyl-1-piperazinyl, 149-51'; Ph, MP (IV), 163'; Ph, PP, 158'; Ph, HPP, 192'; 4-FCGH4, MP, 128'; 4-FCGH4, PP, 120'; 4-ClCGH4, MP, 141-3'; 4-ClCGH4, PP, 148'; 4-BrCGH4, MP, 136-8'; 3-FCGH4, MP, 132-3'; 4-MeCGH4, MP, 147-8'; 4-MeCGH4, PP, 133-4'; 4-MeCGH4, HEP, 153-5'; 3-ClCGH4, MP, 210-12'; 4-iso-PrCGH4, MP, 148'; 4-MeCGH4, 4-allyl-1-piperazinyl, 121-2'; 4-MeCGH4, MP, 162'; 4-MeCGH4, HEP, 127-9'; 3-MeCGH4, MP, 145'; 3-MeCGH4, PP, 118-19'; 3-FCGH4, 4-allyl-1-piperazinyl, 103-5'; 3-FCGH4, MP, 170-2'; 3-FCGH4, PP, 128-9'; 2,4-Cl2CGH3, MP, 142-3'; 3,4-Cl2CGH3, MP, 163-5'; 3,4-(MeO)2CGH3, MP, 105'; 3,4,5-(MeO)3CGH2, MP, 172'; MDP, 4-allyl-1-piperazinyl, 123-5'; MDP, MP, 166-8'; HPP, PP, 148-50'; MDP, HEP, 156'; cyclohexyl, MP, 169'; 3-FCGH4, 4-allyl-1-piperazinyl, 165-7'. Using optically active esters, optically active triazines were prepd.: III, m. 150', [α]_D20D -12.5'; IV, m. 163', [α]_D20D -18.7'. Pharmacol. data are given.

ACCESSION NUMBER: 1970:100767 CAPLUS
 DOCUMENT NUMBER: 72:100767
 TITLE: Anticonvulsant triazine derivatives
 INVENTOR(S): Aron-Samuel, Jan M. D.; Sterne, Jean J.
 SOURCE: S. African, 49 pp.
 CODEN: SFXWAB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6909641		1969/07/31	CA	
CA 941300			DE	
DE 1905683			FR	
FR 1583688			FR	
FR 338			FR	
FR 7407			FR	
GB 1257214			GB	

L10 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)

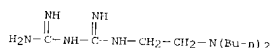


CM 2
 CRN 463-79-6
 CMF C H2 O3



RN 23196-49-8 CAPLUS
 CN Carbonic acid, compd. with 1-[2-(diethylamino)ethyl]biguanide (1:1) (8CI) (CA INDEX NAME)

CM 1
 CRN 45215-37-0
 CMF C12 H28 N6

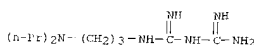


CM 2
 CRN 463-79-6
 CMF C H2 O3



RN 23196-50-1 CAPLUS
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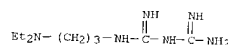
CM 1
 CRN 45204-86-2
 CMF C11 H26 N6



L10 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2004 ACS ON STN (Continued)
 US 3703514 19720000 US
 PRIORITY APPLN. INFO.: FR 19680208
 FR 19681231

IT 23196-46-5P 23196-47-6P 23196-48-7P
 23196-49-8P 23196-50-1P 23196-15-7P
 23199-16-8P
 RL: SYN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 23196-46-5 CAPLUS
 CN Carbonic acid, compd. with 1-[3-(diethylamino)propyl]biguanide (1:1) (8CI) (CA INDEX NAME)

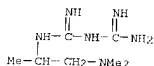
CM 1
 CRN 45160-29-0
 CMF C9 H22 N6



CM 2
 CRN 463-79-6
 CMF C H2 O3



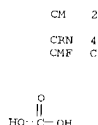
RN 23196-47-6 CAPLUS
 CN Biguanide, 1-[2-(dimethylamino)-1-methylethyl]-, dihydrochloride (8CI) (CA INDEX NAME)



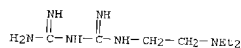
● 2 HCl

RN 23196-48-7 CAPLUS
 CN Carbonic acid, compd. with N-[3-(diethylamino)propyl]imidodicarbonimidic diamide (1:1) (9CI) (CA INDEX NAME)

CM 1
 CRN 41740-98-1
 CMF C13 H30 N6

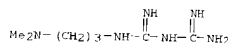


RN 23199-15-7 CAPLUS
 CN Biguanide, 1-[2-(diethylamino)ethyl]-, dihydrochloride (8CI) (CA INDEX NAME)



● 2 HCl

RN 23199-16-8 CAPLUS
 CN Biguanide, 1-[3-(dimethylamino)propyl]-, trihydrochloride (8CI) (CA INDEX NAME)



● 3 HCl

L10 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
G1 For diagram(s), see printed CA Issue.

AB a Hydroxy ester RCH(OH)CO₂Et, where R is an alkyl or substituted phenyl group or Ph, are treated with biguanides H₂NC-(NH)NHC-(NH)NR₁R₂ to give triazines (1), where R₁ is H and R₂ is ω-dialkylaminoalkyl, ω-piperidinealkyl, or ω-morpholinoalkyl; or (NR₁R₂ =) piperazine.

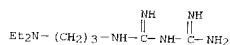
ACCESSION NUMBER: 1969:438919 CAPLUS
DOCUMENT NUMBER: 7138919
TITLE: New triazines
AUTHOR(S): Noel, Michel; Prugnard, Etienne; Patereau, Gerard
CORPORATE SOURCE: Sec. Exploit. Steroides, Putaux, Fr.
SOURCE: Comptes Rendus des Seances de l'Academie des Sciences, Serie C: Sciences Chimiques (1969), 268(15), 1407-9
CODEN: CHDCAQ; ISSN: 0567-6541
Journal

DOCUMENT TYPE: French
LANGUAGE: French
IT 23196-46-5P 23196-47-6P 23196-48-7P
23196-49-8P 23196-50-1P 23199-15-7P
23199-16-8P
RI: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23196-46-5 CAPLUS
CN Carbonic acid, compd. with 1-[3-(diethylamino)propyl]biguanide (1:1) (8CI)
(CA INDEX NAME)

CM 1

CRN 45160-29-0
CMF C9 H22 N6



CM 2

CRN 463-79-6
CMF C H2 O3



RN 23196-47-6 CAPLUS
CN Biguanide, 1-[2-(dimethylamino)-1-methylethyl]-, dihydrochloride (8CI)
(CA INDEX NAME)

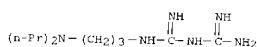
L10 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 23196-50-1 CAPLUS
CN Carbonic acid, compd. with 1-[3-(diethylamino)propyl]biguanide (1:1)
(8CI) (CA INDEX NAME)

CM 1

CRN 45204-86-2
CMF C11 H26 N6

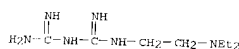


CM 2

CRN 463-79-6
CMF C H2 O3

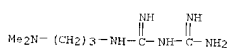


RN 23199-15-7 CAPLUS
CN Biguanide, 1-[2-(diethylamino)ethyl]-, dihydrochloride (8CI) (CA INDEX NAME)



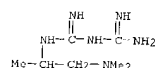
● 2 HCl

RN 23199-16-8 CAPLUS
CN Biguanide, 1-[3-(dimethylamino)propyl]-, trihydrochloride (8CI) (CA INDEX NAME)



● 3 HCl

L10 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

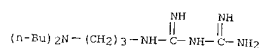


● 2 HCl

RN 23196-49-7 CAPLUS
CN Carbonic acid, compd. with N-[3-(diethylamino)propyl]imidodicarbonimidic diamide (1:1) (8CI) (CA INDEX NAME)

CM 1

CRN 41740-98-1
CMF C13 H30 N6



CM 2

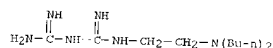
CRN 463-79-6
CMF C H2 O3



RN 23196-49-8 CAPLUS
CN Carbonic acid, compd. with 1-[2-(diethylamino)ethyl]biguanide (1:1) (8CI)
(CA INDEX NAME)

CM 1

CRN 45215-37-0
CMF C12 H28 N6

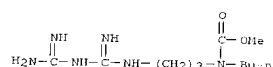


CM 2

CRN 463-79-6
CMF C H2 O3

L10 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT	JP 44005373	B4	19690306	JP	19661013
	24397-53-3P 24397-54-4P				
RN	RL: SPN (Synthetic preparation); FREE (Preparation of)				
CN	24397-53-3 CARBUS				
	Carbamic acid, 13-(3-aminidopropylidino)propylbutyl-, methyl ester				
	mononitrate (SCI) (CA INDEX NAME)				
	CM	1			
	CRN	45234	18-2		
	CME	G11.H74.N6	Q2		

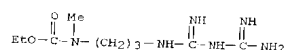


CM 2
CRN 7697-37-2
CMF H N Q3

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{O}=\text{N}-\text{OH} \end{array}$$

RN 24397-54-4 CAPLUS
CN Carbamic acid, [3-(3-amidino guanidino)propyl]methyl-, ethyl ester,
mononitrate (8CI) (CA INDEX NAME)

L10 ANSWER 10 OF 12 CAPLUS COPYRIGHT
CM 1
CRN 45204-09-9
CNE C9 H20 N6 Q2



CM 2
CRN 7697-37-2
CMF H M 03

$$\text{O}=\text{N}^+-\text{OH}$$

10 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2004 ACS on STN
AB of: ibid. 39(9): 1334 (1992); CA 57, 2747d. New biguanide derivs.,
based on a partial structure of chlorhexidine, were synthesized as
possible antiamoebic agents. *p*-iodophenyldicarbonylamide (I), *m*.
220° (picrate *m*. 170°), was obtained in 35% yield by
alkylation of 4-iodoaniline and subsequent reaction with dicyanodiamide
(II). I with Me₂N(CH₂)₅NH₂ (0.01M) in absolute alc. at reflux after
addition of
5 ml. concentrated HCl gave a 35% yield of N1-*p*-iodophenyl-N5-(3-
diethylaminopropyl)biguanide-HCl, *m*. 217°. I with
3-diethylaminopropyl-2-piperidine-, and 3-methylthiopropylamines gave the
corresponding biguanide-2HCl, *m*. 126°, 216°, and
215°, resp. I with benzylamine gave 38% N1-*p*-iodophenyl-N5-benzyl-
biguanide-HCl, *m*. 126°. II (0.1 mole) with 0.1 mole
4-methylphenylurea (III) (method A) in 50 ml. refluxing alc. after addition
of HCl gave a 15% yield of N1-(4-methylphenyl)thiocarbamylbiguanide-HCl (IV),
m. 220°. IV was obtained in 35% yield by melting II and III
together (method B) after treating with HCl. An 80% yield of
thiocarbamylbiguanide nitrate (V), *m*. 280° (picrate *m*. 280°),
was obtained by refluxing 0.1 mole aqueous V with 0.1 mole
dicyanodiamide. Thiocarbamylbiguanide (VI), *m*. 280°, was
similarly prepared from thiourea nitrate and dicyanodiamide in 85% yield. V
(0.1 mole) refluxed with 0.1 mole *p*-toluidine-HCl in absolute ethanol
(method
C) after addition of 5 ml. concentrated HCl gave a 20% yield of IV (picrate
225°). Methods A and B gave 12 and 35% yields, resp., of
N1-(4-methoxyphenyl)thiocarbamylbiguanide-HCl (VII), *m*. 280°, when II
was treated with 4-methoxyphenylurea (V). VI was prepared by method C
in 15% yield from *p*-methoxyaniline and V. II with 4-acetamidophenylurea
(method B) gave 40% yield of N1-(4-acetamidophenyl)thiocarbamylbiguanide-HCl,
m. 280°. II with 2,4-dichlorophenylurea (method B) gave a 30%
yield of N1-(2,4-dichlorophenyl)thiocarbamylbiguanide-HCl, *m*. 280°.
Hydrogenation of 2,5-dimethoxy- and 3,4-dimethoxyanilines yielded,
when isolated as the hydrochloride salts, resp., 2,5-dimethoxy-, 97%, *m*.
230° (picrate *m*. 173°), and 3,4-dimethoxyaniline
hydrochlorides, 80%, *m*. 233° (picrate *m*. 175°).
4-Methylaniline in alc. ammonia with CS₂ and N,N,N',N'-tetramethyl-
thiocarbamate, which was further treated with II to give 40%
4-methylphenylthiocarbamylbiguanide (VIII), *m*. 170°. Similar
treatment of 4-methoxy-, 4-acetyl-, and 4-acetamidophenylamines gave, resp.,
4-methoxy-, 48%, *m*. 280°, and 4-acetamidophenylbiguanide
hydrochloride, 50%, *m*. 280°. IX with 4-methylphenylurea (V),
4-methoxyaniline gave, resp., N1-(4-methoxyphenyl)thiocarbamyl-N5-(4-
acetylphenyl)biguanide-HCl, 50%, *m*. 280°, and N1-(4-
methylphenyl)thiocarbamyl-N5-(4-methoxyphenyl)biguanide-HCl, 50%, *m*.
280°. X with 4-acetylphenylurea and 4-acetamidophenylurea gave, resp.,
N1-(4-acetylphenyl)thiocarbamyl-N5-(4-acetylphenyl)biguanide-HCl, 60%, *m*.
280°, and N1-(4-acetylphenyl)thiocarbamyl-N5-
(4-acetamidophenyl)biguanide-HCl, 55%, *m*. 280°. XI with
4-acetamidophenylurea and 4-methoxyaniline gave, resp., N1-(4-
acetamidophenyl)thiocarbamyl-N5-(4-methoxyphenyl)biguanide-HCl, 55%, *m*.
280°, and N1-(4-acetamidophenyl)thiocarbamyl-
N5-(4-methoxyphenyl)biguanide-HCl, 58%, *m*. 280°.
N-Methylphenylthiocarbonyldicarbonylamide (XII) (50%, *m*. 235°), was
obtained by refluxing *p*-toluidine-HCl with 4-iodoaniline, 0.1 mole II,
0.15 mole NaOAc, and 25 ml. water for 2 hrs. II with 4-

1.10 ANSWER 11 of 12 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
chlorophenylsulfonyl chloride gave 4-chlorophenylsulfonyldicyanod-
(XIII), 45%, m. 270°. XIV with 3,4-dichlorophenylsulfonyl chloride
gave 3,4-dichlorophenylsulfonyldicyanodimides reacted with 0.01 mole of acrylonitrile
these arylsulfonyldicyanodimides reacted with 0.01 mole of acrylonitrile
acrylamide-HCl in water to yield N1-arylsulfonyl-N5-arylguanidine
hydrochlorides. Thus, XII with 4-bromo-, 4-iodo-, 4-methoxy-, and
4-methylamine-HCl gave the resp. biguanide-HCl, m. 288°,
185°, 221°, and 280°. XIII with 4-methoxy-, 4-iodo-,
4-methoxy-, and 3,4-dimethoxyaniline-HCl gave the resp. biguanide-HCl m.
165°, 201°, 280°, and 280°. XIV with 4-iodo-,
2,4-dichloro-, 2,5-dimethoxy-, and 3,4-dimethoxyaniline-HCl gave three
biguanide-HCl, m. >280°, 180°, and 260°.

CACN2 (10 g.) treated with CNBr (10 g. of 50% soln.) and subsequently
with 2-methoxyaniline-HCl gave 55% N1,N5-bis-(2-methoxyphenyl)biguanide-
HCl, m. 182°. Similarly, the use of the appropriate arylamine-HCl gave:
(2-chlorophenyl)- 55%, m. 290°, (2-hydroxyphenyl)- 50%, m.
280°, (2-carboxyphenyl)-, 45% m. 280°, and
(2,4-dimethylphenyl)phenylbiguanide-HCl, 50%, m. 203°.

ACCESION NUMBER: 1964:60568 CAPLUS
DOCUMENT NUMBER: 60:00568

ORIGINAL REFERENCE NO.: 60:10573-a, 10574-a-d

TITLE: Possible antiamebic agents. XX. Synthesis new
biguanide derivatives

AUTHOR(S): Sen, A. B.; Gupta, S. K.

CORPORATE SOURCE: Univ. Lucknow

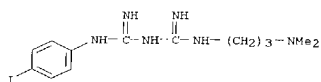
SOURCE: T. Indian Chem. Soc. (1963), 40(7), 578-84

DOCUMENT TYPE: Journal

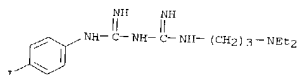
LANGUAGE: Unavailable

NOTE: 92111-06-3, Biguanide, 1-[3-(dimethylamino)propyl]-5-(p-
iodophenyl)-, dihydrochloride 92112-04-3, Biguanide,
1-[3-(diethylamino)propyl]-5-(p-iodophenyl)-, dihydrochloride
(preparation of)

92111-06-3 CAPLUS
Biguanide, 1-[3-(dimethylamino)propyl]-5-(p-iodophenyl)-, di-hydrochloride
(7C1) (CA INDEX NAME)


$$\bullet 2 \text{ HCl}$$

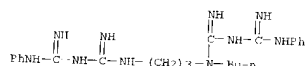
RN 98132-93-5 CAPLUS
CN Biguanide, 1-[3-(diethylamino)propyl]-5-(p-iodophenyl)-, dihydrochloride
(7CI) (CA INDEX NAME)



● 2 HCl

L10 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2004 ACS on STM
 AB Organic compds. are stabilized against oxidation by use of about 0.01% of bis(biguanides) R₂NHC(=NH)NHC(=NH)NR(A)NR₅C(=NH)NHC(=NH)NR₄R₃ (Ia), where R₂ and R₃ are alkyl or aryl radicals, R₄ and R₅ are H or alkyl radicals having up to 5 C atoms, and A is a bifunctional group having 2-4 C atoms. Some of these compds. were prepared as follows.
 Ethylenebis(dicyandiamide) (19.4 g.) 23.6 g. o-toluidine (I), 22 g. concentrated HCl, 75 ml. H₂O, and 25 ml. Cellosolve were refluxed 1 hr., the mixture was cooled, and a compound (II), m. 230° (decomposition), was recrystd. from H₂O. II was dissolved in hot H₂O, treated with Darco, filtered, and the filtrate was neutralized with NaOH. Crystallization from alc. gave ethylenebis (o-tolylbiguanide), m. 156-7° (decomposition). In the following Ia, the different reagents, the product, and the m.p. are listed: p-toluidine, ethylenebis(p-tolylbiguanide), 165°, (decomposition); aniline (III), ethylenebis(phenylbiguanide), 170°, (decomposition); nonylaniline, ethylenebis(nonylphenylbiguanide), amidoxyhydroquinone diethyl ether, ethylenebis(2,5-diethoxyphenylbiguanide), 145-7° (decomposition); 3,5-dimethylaniline, ethylenebis(3,5-dimethylphenylbiguanide), 163° (decomposition); p-tert-amylphenylbiguanide, ethylenebis(p-tert-amylphenylbiguanide), 110°; o-aminobiphenyl, ethylenebis(o-diphenylbiguanide), softens at 65°; butylaniline, ethylenebis(butyl phenylbiguanide), softens at 186-8°; tetramethylenebis(dicyandiamide) (IV), tetramethylenebis(o-tolylbiguanide), 155°. IV (20.8 g.), 21.4 g. I, and 20 g. concentrated HCl and 75 ml. H₂O were refluxed for 1 1/4 hrs. and then cooled in an ice bath to give 1,5-di(o-tolylbiguanide) HCl salt, m. 240-2°. On long standing the filtrate yielded trimethylenebis(o-tolylbiguanide) HCl salt, m. 135-40°. III (0.4 mole), 0.4 mole 37% HCl, and 100 ml. H₂O were added to the oil obtained in the preparation of N-butyl-1,3-propylenebis(dicyandiamide), and the mixture was refluxed 1 hr. NaNO₃ (0.2 mole) was added to one portion of the mixture; no product was obtained. The other portion was kept 2 days at room temperature to give N-butyl-1,3-propylenebis(phenylbiguanide) HCl salt, m. 110-20°. Use of these inhibitors in concentration of about 0.01% increased the induction period of a thermally cracked metal-free gasoline from 185 min. for untreated gasoline to 255-320 min. for treated gasoline, while the induction period of a gasoline containing 4 ppm. soluble Cu increased from 14 min. untreated to 119-151 min. treated. Soap discoloration was also decreased by use of 0.1% inhibitor.
 ACCESSION NUMBER: 1957156927 CAPLUS
 DOCUMENT NUMBER: 51:56927
 ORIGINAL REFERENCE NO.: 51:10572d-1
 TITLE: Bis(biguanides) as stabilizing agents
 INVENTOR(S): Kennedy, Geo. W.
 PATENT ASSIGNEE(S): American Cyanamid Co.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 US 2783210 19570226 US
 IT 119041-46-2, Biguanide, 1-butyl-1,1'-trimethylenebis[5-phenyl-, hydrochloride (preparation of)
 RN 119041-46-2 CAPLUS

L10 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2004 ACS on STM (Continued)
 CN Biguanide, 1-butyl-1,1'-trimethylenebis[5-phenyl-, hydrochloride (6CI)
 (CA INDEX NAME)



● HCl

=> logoff y
COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 18:14:17 ON 10 MAR 2004

SINCE FILE	TOTAL
ENTRY	SESSION
68.47	382.09

SINCE FILE	TOTAL
ENTRY	SESSION
-8.32	-8.32